

PAA-BA42NL & PUZ-AK42NL
42,000 BTU/H CASED COIL INDOOR UNIT
42,000 BTU/H HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



INDOOR Unit.....PAA-BA42NL

OUTDOOR Unit.....PUZ-AK42NL

INDOOR UNIT FEATURES

- Auto Changeover: The unit will automatically switch between heating and cooling modes to maintain your desired temperature.
- Furnace Compatible: Compatible with most gas furnaces, Intelli-HEAT® allows for Intelligent Switchover between the furnace and heat pump operation.
- Intelligent Switchover: Automatically switches from electric heat pump to gas furnace operation in extreme cold for consistent comfort. The system can also be set to switch based optimal energy efficiency and to reduce your carbon footprint.
- Light Commercial: Light commercial applications include small offices, restaurants, and retail.
- Multi Zone: A multi-zone unit provides personalized comfort control to multiple spaces.
- One Speed Fan: Singular fan speed settings for optimal comfort

OUTDOOR UNIT FEATURES

- Blue Fin Coating: Anti-corrosion coating that protects the outdoor heat exchanger against salt, sulfur, and other airborne contaminants that impact the efficiency and performance of the outdoor units.
- Inverter Driven Compressor: Inverter technology uses only the precise amount of energy needed to keep a space comfortable.
- Seacoast Protection: Designed to protect against the corrosive effects of environments that are in close proximity to the sea.

SPECIFICATIONS: PAA-BA42NL & PUZ-AK42NL

Cooling at 95F ¹	Maximum Capacity	Btu/h	43,000
	Rated Capacity	Btu/h	42,000
	Minimum Capacity	Btu/h	15,400
	Maximum Power Input	W	4,200
	Rated Power Input	W	4,040
	Moisture Removal	Pints/h	11.10
	Sensible Heat Factor	-	0.72
Heating at 47F ²	Power Factor [208V / 230V]	% / %	90 / 90
	Maximum Capacity	Btu/h	50,000
	Rated Capacity	Btu/h	50,000
	Minimum Capacity	Btu/h	18,900
	Maximum Power Input	W	4,730
	Rated Power Input	W	4,730
	Power Factor [208V / 230V]	% / %	91 / 91
Heating at 17F ³	Maximum Capacity	Btu/h	32,600
	Rated Capacity	Btu/h	32,600
	Maximum Power Input	W	3,670
	Rated Power Input	W	3,670
Heating at 5F ⁵	Maximum Capacity	Btu/h	26,600
	Maximum Power Input	W	3,390
Heating at -4F ⁶	Maximum Capacity	Btu/h	23,900
Efficiency	SEER2		17.10
	EER2 ¹		10.30
	HSPF2 [IV]		9.30
	COP at 47°F ²		3.1
	COP at 17°F at Maximum Capacity ³		2.60
	COP at 5°F at Maximum Capacity ⁵		2.30
	COP at -4°F at Maximum Capacity ⁶		2.22
Electrical	ENERGY STAR® Certified		No
	Voltage, Phase, Frequency	V AC / V AC , ø , Hz	208 / 230 , 1 , 60
	Guaranteed Voltage Range	V AC - V AC	198 - 253
	Voltage: Indoor - Outdoor, S1-S2	V AC	208/230
	Voltage: Indoor - Outdoor, S2-S3	V DC	12-24
	Short-circuit Current Rating [SCCR]	kA	5
	Recommended Fuse/Breaker Size (Outdoor)	A	35
Indoor Unit	Recommended Wire Size [Indoor - Outdoor]	AWG	14
	MCA	A	0.2
	Rated Airflow, Dry	CFM	1,225
	Maximum Airflow, Dry	CFM	1,660
	Minimum Airflow, Dry	CFM	936
	Internal Static Pressure [at Rated CFM]	in.WG	0.3
	Drain Pipe Size O.D.	inch [mm]	3/4 [19.05]
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	17-1/2 x 21-3/8 x 32 [445 x 543 x 812]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	19-5/16 x 25-5/16 x 37-8/16 [491 x 695 x 953]
	Unit Weight [Cased Coil Only]	lbs [kg]	72.8 [33.0]
	Control Box Weight	lbs [kg]	5.1 [2.3]
	Package Weight	lbs [kg]	97.0 [44]
IDU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum]	°FDB , °FWB / °FDB , °FWB	90 , 73 / 66 , 59
	Heating Intake Air Temp [Maximum / Minimum]	°FDB / °FDB	83 / 50

NOTES

¹Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)

²Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)

³Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)

⁵Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)

⁶Heating at -4°F (Indoor: 70°F DB, 60°F WB // Outdoor: -4°F DB, -5°F WB)

*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):

• Wind baffles required to operate below 23°F DB in cooling mode.

• Heat pump system with wind baffle: 0°F - 115°F.

• Refer to wind baffle documentation for further information.

** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):

• System cuts out in heating mode and automatically restarts at these temperatures.

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Outdoor Unit	MCA	A	34
	MOCP	A	56
	Fan Motor Output	W	74+74
	Airflow Rate Cooling	CFM	3,910
	Airflow Rate Heating	CFM	3,910
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger (Bluefin, Sea Coast)		Yes , Yes
	Sound Pressure Level, Cooling ¹	dB (A)	52
	Sound Pressure Level, Heating ²	dB (A)	53
	Compressor Type		Twin Rotary
	Compressor Model		MRB36FEGMC
	Compressor Oil [Type // Charge]	Type // oz	RM68EH // 45
	External Finish Color		Munsell No.3Y 7.8/1.1
	Base Pan Heater		Optional
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	41-15/16 x 17-3/4 x 58-5/16 [1,090 x 450 x 1,480]
ODU Operating Temp. Range	Unit Weight	lbs [kg]	224 [102]
	Package Weight	lbs [kg]	251 [114]
	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB / °FDB	115 / 23
Refrigerant	Heating Intake Air Temp [Maximum / Minimum]	°FDB , °FWB / °FDB , °FWB	70 , 59 / -4 , -4
	Heating Thermal Lock-out / Re-start Temperatures**	°FDB / °FDB	-13 / -4
	Type		R454B
Piping	Pre-Charged Refrigerant Amount	lbs , oz	9 , 14
	Maximum Pre-Charged Piping Length	ft [m]	100 [30]
	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0.6
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	5/8 [15.88]
	Liquid Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]
	Maximum Piping Length	ft [m]	100 [30]
	Maximum Height Difference	ft [m]	100 [30]
Piping	Maximum Number of Bends		15

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³Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)

⁴Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)

⁵Heating at -4°F (Indoor: 70°F DB, 60°F WB // Outdoor: -4°F DB, -5°F WB)

*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):

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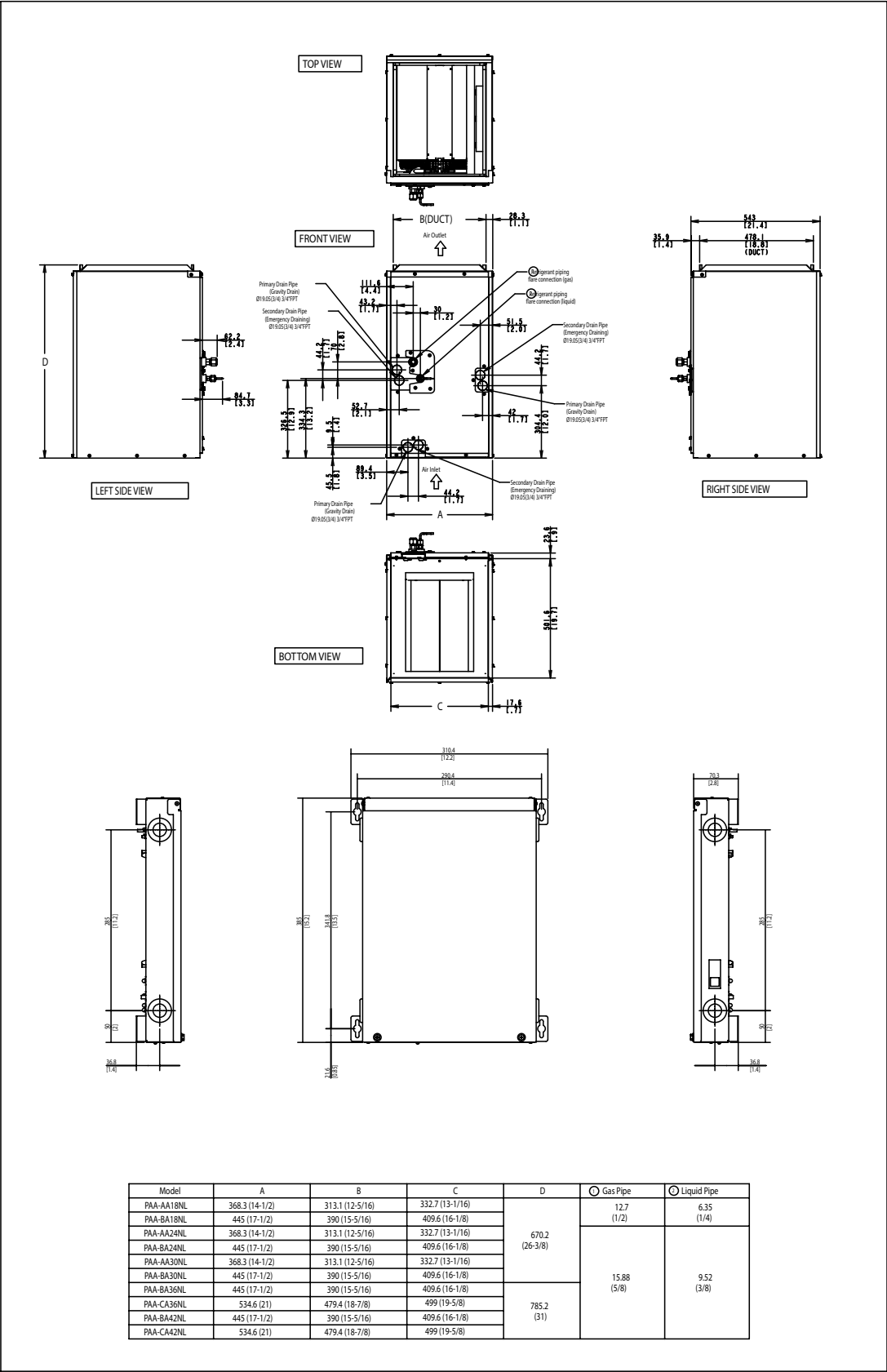
INDOOR UNIT ACCESSORIES: PAA-BA42NL

Condensate	Refco Condensate Pump 100-240V up to 120k BTU/h	COMBI
	Blue Diamond (Advanced) Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	X87-721
	Sauermann Condensate Pump	SI30-230
	Blue Diamond (MegaBlue Advanced) Condensate Pump w/ Reservoir & Sensor	X87-835
	Blue Diamond (MaxiBlue Advanced) Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H [recommended]	X87-711
	Blue Diamond Sensor Extension Cable — 15 Ft.	C13-103
Control Interface	Procon BACnet® and Modbus® Interface	PAC-UKPRC001-CN-1
	Thermostat Interface	PAC-US446CN-1
	kumo station® for Comfort app	PAC-WHS01HC-E
	IT Extender	PAC-WHS01IE-E
	Operation and Error Status Output Adapter ¹	PAC-SF40RM-E
	Wireless Interface 2 for Comfrot app	PAC-USWHS002-WF-2
Disconnect Switch	30A600VUL fits 2 X 4 utility box - Black	TAZ-MS303
	(30A/600V/UL) [fits 2" X 4" utility box] - White	TAZ-MS303W
Lineset	3/8 x 5/8 Lineset Twin-Tube Insulation - 100 feet	MPLS385812T-100
	3/8 x 5/8 Lineset Twin-Tube Insulation - 15 feet	MPLS385812T-15
	3/8 x 5/8 Lineset Twin-Tube Insulation - 65 feet	MPLS385812T-65
	3/8 x 5/8 Lineset Twin-Tube Insulation - 50 feet	MPLS385812T-50
	3/8 x 5/8 Lineset Twin-Tube Insulation - 10 feet	MPLS385812T-10
	3/8 x 5/8 Lineset Twin-Tube Insulation - 30 feet	MPLS385812T-30
Power Supplies & Auxiliary Components	ERV On/Off Input Adapter for CNER on SVZ PEAD and PVA models	PAC-740
Remote Sensor	Wireless temperature and humidity sensor for Comfort app	PAC-USWHS003-TH-1
	Wall Mounted Remote Temperature Sensor	PAC-SE41TS-E
	Flush Mount Remote Temperature Sensor for SEZ SLZ SVZ and all P-Series models	PAC-USSEN002-FM-1
Terminal Signal Adapter	CN24 Relay Kit	CN24RELAY-KIT-CM3
	3-Pin Connector	PAC-715AD
	Connector and wire for Operation status/error using CN51	PAC-725AD
Wired Remote Controller	Simple MA Remote Controller	PAC-YT53CRAU-J
	Deluxe MA Wired Remote Controller	PAR-42MAAUB
	Simple Direct Wired Remote Controller	PAC-SDW01RC-1
	Touch MA Controller†	PAR-CT01MAU-SB
Wireless Remote Controller	Wireless Remote Controller	PAR-SL101A-E
	Universal Wireless Receiver for PAR-FL32MA-E	PAR-FA32MA-E
	Wireless RedLINK™ Remote Controller	MHK2
	Universal Wireless Receiver for PAR-FL32MA-E	PAR-FA32MA-W
	Lockdown Bracket for Wireless Handheld Remote Controllers	RCMKP1CB
NOTES †Unable to use with Wireless Handheld Remote Controller		

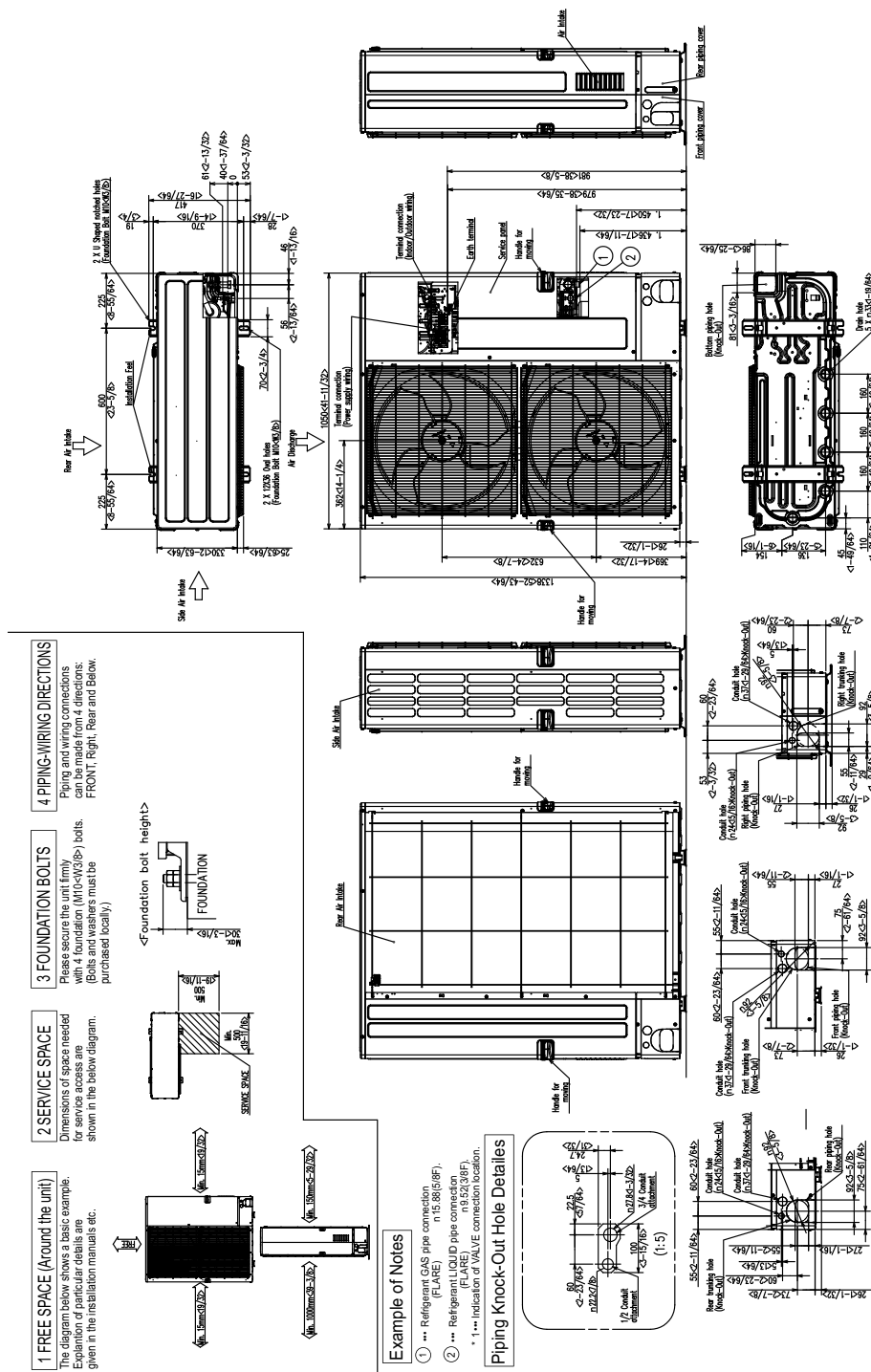
OUTDOOR UNIT ACCESSORIES: PUZ-AK42NL

Air Outlet Guide	Air Outlet Guide 1 Piece	PAC-SH96SG-E (two pieces required)
Centralized Drain Pan	Centralized Drain Pan	PAC-SH97DP-E
Control/Service Tool	M- & P-Series Maintenance Tool Cable Set	M21EC0397
	Maintenance Tool Interface	PAC-USCMS-MN-1
	ControlService Tool	PAC-SK52ST
Drain Socket	Drain Socket	PAC-SG61DS-E
Hail Guards	Hail Guard	HG-A2
M-NET Converter	M-Net Interface for P-Series	PAC-SJ95MA-E
Mini-Split Wire	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	SW144-250
	14 Gauge 4 wire MiniSplit Cable250 ft roll	S144-250
	14 Gauge 4 wire MiniSplit Cable50 ft roll	S144-50
	14 Gauge 4 wire Armored MiniSplit Cable50 ft roll	SW144-50
Mounting Pad	Condensing Unit Mounting Pad 24 x 42 x 3	ULTRILITE2
Optional Defrost Heater	Optional Defrost Heater	PAC-SL11BH-E
Snow/Rain Diverter	SnowRain Diverter	SRD-5
Stand	18" Dual Fan Stand	QSMS1802M
	24" Dual Fan Stand	QSMS2402M
	12" Dual Fan Stand	QSMS1202M
	Condenser Wall Bracket - Stainless Steel Finish	QSWBSS
	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	DSD-400P
	Condenser Wall Bracket	QSWB2000M-1
Terminal Signal Adapter	Connector and wire for Operation status/error using CN51	PAC-725AD
	3-Pin Connector	PAC-715AD
Wind Baffle	Rear Wind Baffle	WB-RE6
	Side Advanced Wind Baffle	WB-SD6
	Front Wind Baffle	WB-PA3 (two pieces required)
NOTES		

INDOOR UNIT DIMENSIONS: PAA-BA42NL



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